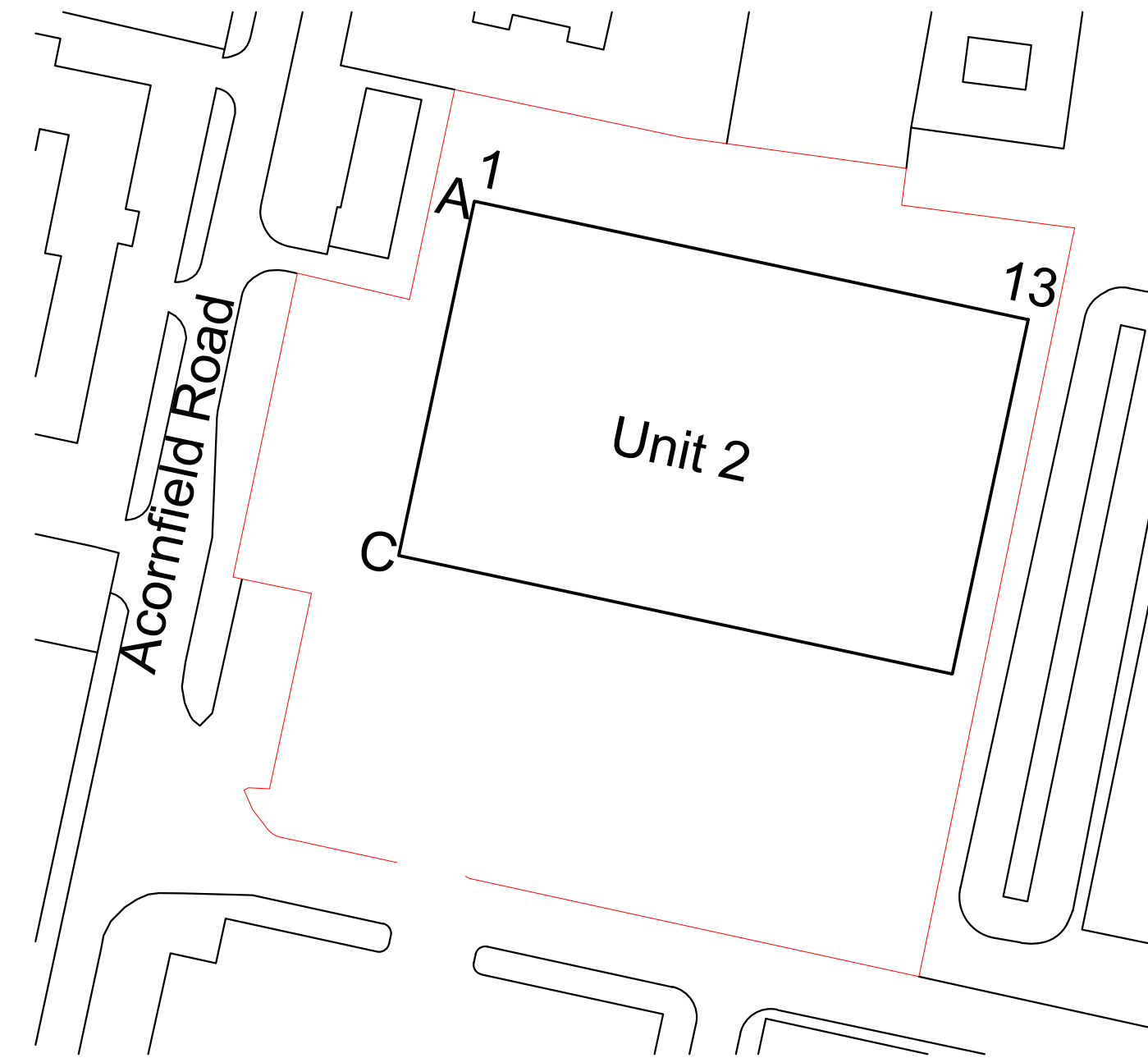
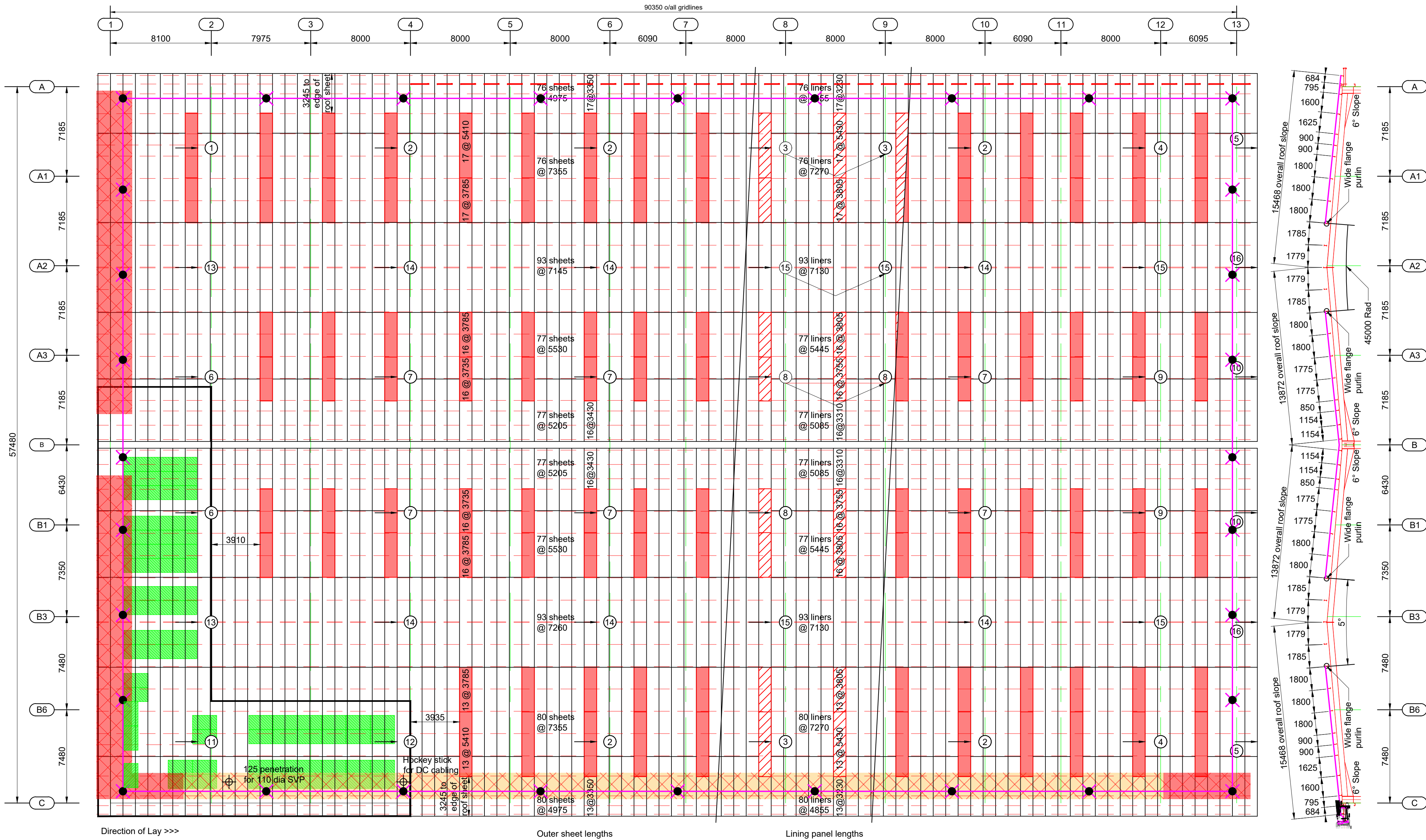




Roof Specification....CA Twin Therm ('U' Value 0.16W/m²) 25 YEAR SPECIFICATION

SHEETER NOTE: SEE DRAWINGS C2506/ FOR ALL SPECIFICATION DETAILS.

- Lining panel to be CA17/1000L profile x 0.6 thk. colorcoat **High Reflect**.
 - Fix to purlins using 3 no. M27G16 except at ends and laps, fix using 6 no. M27G16.
 - At eaves/filler locations fix using 6 no. TSC50G16. (TSL36G16 for H/R applications).
- Lining panels to be air sealed as follows:
 - End laps sealed using 1 no. run **T-Strip 9x3** positioned over purlin heel.
 - Side laps sealed using 50mm wide T-foil+ mastic backed tape.
- Rooflight liner to be T-Light 17 1000RL, SAA Class '1' grade GRP material at 2.44kg/m² (8oz).
 - Fix to purlins using 5 no. M27G29, except at ends & laps use 5 no. M27G29 and 2 no. M27G16. (Including top lap).
- Rooflight liner to be air sealed as follows:
 - End laps sealed using 2 no. runs **T-Strip 9x3** positioned over purlin heel.
 - Panel side laps sealed using 50mm wide T-foil+ mastic backed tape.
- MatriX system fixed as follows:
 - MXSB-3600 (1.2mm thk) c/w MX-260 fixed at 1167mm crs. typically UNO.
 - MX-260 fix to purlins using 2 no. M27G16 at opposing corners.
 - TSC50G16 to replace M27G16 at gutter locations and not rolled applications.
- Insulation to be 280mm thk. 'Therma Quilt' insulation quilt.
 - To be laid continuously ridge to eaves, or tightly butted where impracticable.
- Rooflight intermediate to be TC16-MX-17, 16mm thk. x 1000mm wide Polycarbonate insulation core.
 - Core to be positioned with factory castellations down slope to interlock with MatriX brackets.

- Outer sheets to be CA32/1000R profile x 0.7 thk. HPS200u coated Goosewing Grey.
 - Fix to MatriX bars using 3 no. CSSC28S16 except at ends and laps fix every corrugation.
 - Side laps to be stitched at 450mm crs. using CSSS23S16.
- Outer sheets to be weather sealed as follows:
 - End laps sealed using 2 no. runs of **T-Strip 6x5V**, 1 no. positioned up slope & 1 no. positioned down slope of the end lap fixing.
 - Side laps sealed using **T-Strip 6x5** positioned weather side of the stitcher.
- Rooflight Outer to be T-Light 32 1000R, SAB Class '3' grade GRP material at 1.83kg/m² (6oz).
 - Fix to MatriX bars using 6 no. CSSC28S30 coloured POPPY RED for high visibility.
 - Side laps stitched at 450mm crs. using CSSS23S16 coloured POPPY RED for high visibility.
- Rooflight outer to be weather sealed as follows: (See C2506/02&03 for more information)
 - End laps sealed using 2 no. runs of **T-Strip QR 10x8V**, 1 no. positioned up slope & 1 no. positioned down slope of the end lap fixing and 1 no. run of **T-Strip QR 16x4U** positioned on the centre line of the end lap fixing.
 - Side laps sealed using **T-Strip QR 6x5** positioned weather side of the stitcher.
- All flashings to be fixed at 450mm crs. using AL-V 4.8x15 pop rivets (coloured where appropriate). All internal flashings to be sealed using 50mm T-foil+. External flashing end / butt joints to be weather sealed using low modulus clear silicone.

Once fully fixed, the roof including rooflights is a 'Class B' non-fragile assembly in accordance with HSE materials standard ACR(M)00-1-2019 'test for non-fragility of profiled sheeted and large element roofing assemblies' (sixth edition).

ROOFLIGHT INFORMATION
U-Value = 1.30 W/m²K
G-Value = 0.53
Light Transmission = 55%
Shading Coefficient = 0.61

Note !

Locations and fixing details of any proposed SOLAR ARRAY should be approved by YSIS prior to installation.

(Refer to CA TIP sheets 106 & 108)

Typically...

- 500mm must be maintained down at least 1 side of roof light.
- Solar array must be kept clear of all sheet end laps (300mm either side of the lap.)
- 500mm clearance to be maintained around ridge flashings.

Denotes safety line system (Indicative layout)

Denotes Capable Member
See drawing 4 for fixing details

Denotes Office Footprint (401.1983m²)
No rooflights within this area

ROOF LIGHT PERCENTAGE CALCULATION

$$\frac{\text{Roof light area x 100}}{\text{Total area - Office}} = \frac{493.55 \times 100}{4792.1197 \text{ m}^2} = 10.299\%$$

Denotes outer sheet and liner tiered pack marks & finish positions (Grey pack notes moved to next rafter for crane leave outs)

Note!
Sheet/panel packs to be positioned centrally over rafters from eaves purlin.

Note !
Where roof slope is equal to or over 5 degree pitch, sheet packs must not be loaded onto Matrix system.

Denotes rooflight sheets (outer)

Denotes rooflight liners (inner)

High wind area
Matrix brackets fix at max. 1000mm crs.

High wind area
Matrix brackets fix at max. 600mm crs.

Denotes PVs (Shown indicatively)

For Comment

Status:

C05	26/11/25	PVs positions finalised and penetrations shown.
C04	31/10/25	PVs positions finalised.
C03	26/09/25	PVs shown indicatively.
C01	27/08/25	Construction issue.
P01	04/08/25	First Issue.
Revision	Date	Description
YESIS YORKSHIRE SHEETING AND INSULATION SERVICES LTD Green Lane Trading Estate, Clifton, York, YO30 5PY Tel: 01904 695800 email: epost@ysis.co.uk BSI REGISTERED FIRM CERTIFICATE NO. 551167		
Title: Roof Plan		Client: wilten CONSTRUCTION LTD
Contract: Site 2 - Image Business Park, Knowsley		Drawing No. C2506/01
Drawn: J.Ba		Revision C5
Date: 26/11/25		
Checked: I.Ox		
Date: 26/11/25		
Scales (A1): 1:200		